

1232-1129-333
FEDERAL BUREAU OF INVESTIGATION

1955

1006.68 spent
200.00 on hand
100.00 (Javier)

1006.68 spent
105.00 gifts
$$\begin{array}{r} 1000 \\ 650 \\ \hline 1650 \\ 1350 \\ \hline \end{array}$$

14.00 cashed

1350.00
1117.55
 \hline
232.45

970 spent
47 gifts
200 on hand
 \hline
1217

25.66
$$\begin{array}{r} 53 \sqrt{1350} \\ 106 \\ \hline 290 \\ 265 \\ \hline 350 \\ 318 \\ \hline 320 \end{array}$$

\$200 on hand
9.00 spent
47 gifts

30.00
17.00
 \hline
13.00

932.28 spent

120.00 Hotel
20 Taxis
20 Food

120.00 Hotel

160.000 6m
40.000 20.3
$$\begin{array}{r} 700 \\ 60 \\ \hline 100 \end{array}$$

11
$$\begin{array}{r} 3300 \\ 30 \\ \hline 30 \\ 30 \\ \hline 25 \\ 110 \\ \hline 250 \\ 250 \\ \hline 2750 \end{array}$$

31
$$\begin{array}{r} 900 \\ 30 \\ \hline 30 \\ 30 \\ \hline 21 \end{array}$$

6
$$\begin{array}{r} 53 \\ 25 \\ 28 \\ \hline 53 \text{ days} \end{array}$$

Calls

Wilson's Warbler Wilsonia pusilla :

- dry raspy call notes

①

Redstart Setophaga ruticilla

- high short clear chip

Dusky-capped Flycatcher Myiarchus tuberculifer

- mournful whistle slurring down peeur
low pitched.

Roadside Hawk Buteo magnirostrum

- distinct notes, loud "querulous" heyaa

Collared forest falcon Micrastur semitorquatus

- nasal cow, cow, cow

Golden Fronted Woodpecker Centurus aurifrons

- flicker-like keek, keek, keek, keek
trilled very quickly!

Golden Olive Flycatcher Piculus chrysochloros

- ~~Atta~~ [♂] May - a second syllable down for
sharp / loud call

Rufous Breasted Spike tail Syndactylus erythrothorax

- emphatic notes ascending in pitch, dropping on last note
zhee - zhee - zhee - zho.

Barred Antshrike Thamnophilus doliatus

- K-K-K-ic - cow accelerating/rolling
same pitch ends on higher note

Masked Tityra Tityra semifasciata

- grunting, nasal quert, quert

Couches vs Tropical Kingbird

Couches single notes, high nasal
slurred queen vs, rapid twittering
pitiiriereee

Boat-billed flycatcher - Megarynchus pitangua
- rough rasping Kee'rikic.

Social flycatcher - Myiozetetes similis
- excited Kree kik'aroo'

Tropical Flycatcher - Ceryle cinerea
- slightly trilled preee repeated

Least flycatcher - Empidonax minimus

- tail bobbing, voice w/it

Sulphur-bellied flycatcher Myiodynastes luteiventris

- high penetrating kee-ze-ik!

or sound like squeezing rubber duckie

Streaked Flycatcher Myiodynastes maculatus

- Sip Sip Sip seef (rising on last syllable)

Gray Hawk Buteo nitidus

- mournful high pitched whistle

Plain Chachalaca Otalis vetula

- parrot like chacha-la' but lower
pitch

Red-billed pigeon Columba flavirostris
ho o o o o

short-billed pigeon
who cooks for you?
white winged dove

oo-oo-oo (last descending)

Inca dove

fast hoo-oo equal emphasis.

Common ground dove

o' o' o' o' equally spaced

Ruddy ground dove

oup oup oup

white-tipped dove

forced air oo-oo-oo

Maynolia Warbler

- nasal relatively long "Week"

Wilson's Warbler

- raspy long call notes

Jewellion Flycatcher

- - -
- pit-a-zee pit pit pita zeech

Forked-tail Flycatcher

- pebbly 'kree'

Piratic Flycatcher

- rising - falling sweet followed by
didididi at level pitch

Boat Billed Flycatcher

- rough rasping khrrr ki krrr ri

Great Crested Flycatcher

- loud whistled weep (from infection)

Ash-throated Flycatcher

- Pa-ti, rolling chi-beer'

Nettling's Flycatcher

- clear, penetrating whistled peer
less plaintive than dusky cypred

Brown-croated Flycatcher

- sharp whi-t, a short prrr, rolling throat, purr.
whit-pit-a-wee-

Greater Pewee

- ho-sa-~~we~~-re-ah. whistled thinly

Yellow Bellied Flycatcher

- spiritless, rising chur-wee

Willow Flycatcher

- sneezy fitzbow

Ruddy-tailed Flycatcher

- thin tsee'-oo-tee

Sulphur-rumped Flycatcher

- sharp pit,

white-throated Spadebill

- titit, ditarit.

Yellow-olive Flycatcher

- thin hissing whistle

Yellow bellied Elania

- hoisy peer or prump pree-wee

Greenish Tanager

- cheez-weez.

Northern Catbird

- nasally meow

Green Jay

- nasally chek with dry rattle

Clay colored Robin

- like Am Robin = meow or mew

Band-backed wren

- suggestive of Green Jay

White-throated Robin

- ?

Rufous Vireo

- howdawit

Wood Thrush

- pit pit pit

Giant Wren

- usually series of calls

Veery

- low whistled phew

Banded Wren

- prrrr chechecheche witwitwit

Swainson's Thrush

- abrupt whiz

Spot breasted Wren

- ascending ~~base or tail~~
swee' purapi' ya you

Harris' Thrush

- low chuck, often double

White breasted Nod Wren

clear whistled phrases, repeated
cheery-cheery-bee
or cheer-cheer-cheer

White-eyed Vireo

- wit whoow didididit

♂

Yellow-throated Vireo

hoarse heh-heh-heh

White bellied Wren

musical, rhythmic tinkling and bubbling.

Solitary Vireo

- one syllable red-eyed

Yellow-green Vireo

- like red-eyed / shorter shorter than Solitary

Lesser greenlet

- it's a cleat

Red-legged Honeycreeper

(tip-tip-daa-top-tip - tsie-cha (nasal))

Yellow-breasted Chat

- like knocking on a door

Orange-Crowned Warbler

sharp chip

Nashville

sharp chink

Black & White

cuckoo-like chimp or high beep beep

Hooded

flat metallic chink

Louisiana Waterthrush -

sharp chink slightly flatter than NWST

Northern Waterthrush

metallic chink

Common Yellowthroat

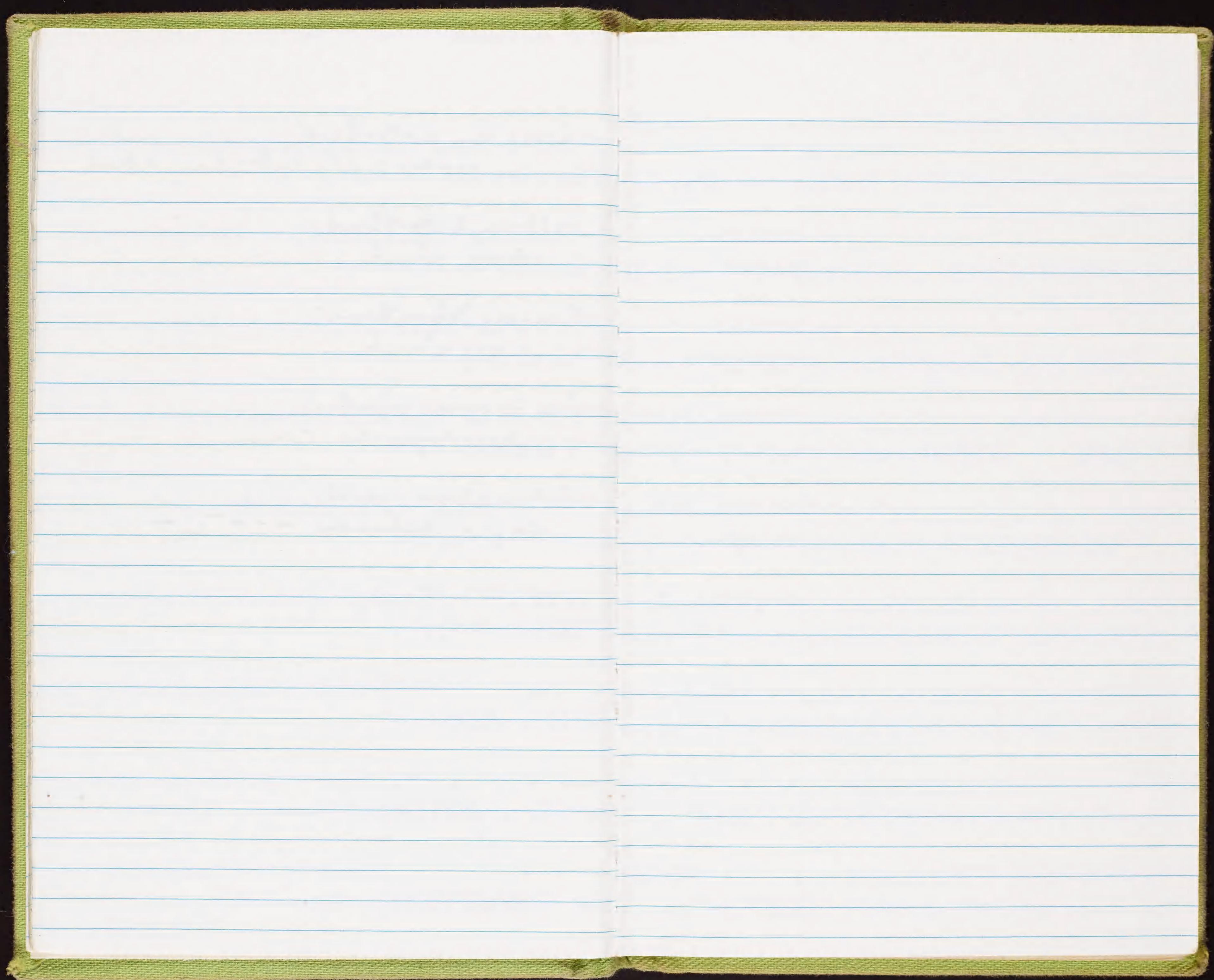
- raspy chuck

Grey-crowned Yellowthroat

- less raspy than Common

Golden-crowned Warbler

- six clear whistle notes - - - - -



U.S. N.P.

Salary	Javier	\$ 700	NP 300	800
	André	\$ 600		600

In Hand	Cash	\$ 450	250
Cheques	1600.		1600

\$	Salary	NP
<u>1300</u>	<u>300</u>	
300	370	
<u>200</u>	<u>Javier</u>	
	<u>Travel</u>	

100	370
<u>50</u>	<u>Andrea</u>
	<u>Travel</u>
<u>50</u>	<u>50</u>

50	320
<u>200</u>	<u>Javier</u>
	<u>Travel</u>
<u>200</u>	<u>150</u>

100	250
<u>50</u>	<u>Andrea</u>
	<u>Travel</u>
<u>50</u>	<u>250</u>

\$U.S.

7/1	\$15.00	Taxi	15.00
	NP120.	Hotel	40.00
8/1	22.50	Bus	7.50
13/1	192.51	20.41 Food	4.17
	52.00	Oil/charge	17.33
	40.00	gas	13.33
	58.00	gas	19.33
	25.00	photocopy	8.33
	443.10	Food	47.7
	143.10	Food	47.70
17/1	55.50	Food	18.50
	28.00	Camping Fee	9.33
18/1	46.00	Gas	15.33
	78.40	Food	26.13
24/1	110.00	Gas/Oil	36.66
25/1	125.78	Food	41.93
26/1	4.00	Gas	1.33
	208.20	Food	69.40
	210.00	Car repair	70.00
27/1	70.20	Gas	23.40
30/1	36.00	Food	12.00
5/2	136.00	Gas	45.33
	408.00	Food	36.00
5/2	89.00	Gas	29.66
6/2	10.00	Tire Repair	3.33
	15.00	Photocopy	5.00
	91.50		30.50

8/1/2

2	86.5		\$4.5
	39.8	Food	95.50
	52.5	Gas	17.50
	30.00	Gas	70.00
	114.5	Food	38.16
	136.00	Gas	45.33
	143.00	Food	47.66
	47.00	Gas	10.67
9/1	102.8	Food	34.27
			932.28
9/2	114.00	Food	38.00
			970.28
18/2	216.50	Food	10.50
	20.00	Change ticket	6.67
	41.00	Gas	14.33
			1006.68
19/2	147		49.50
	96.00	Food	32.00
	53.60	Gas	17.87
	60.00	Gas	20.00
	50.00	Gas	16.67
24/2	22.00	Food	7.33
			1100.87

Pt Counts - Birds

Date

Observer

Species:

1

2

3

4

5

6

7

8

9

Loc or Site

Pt. #

Weather

Time

Vegetation Sampling - Pt Counts

Date

Observer

Pt #

Loc or Site

Foliage ht Profile

1

2

3

4

5

6

7

8

9

stems in ea. dbh class

0-5 5-10 10-20 >20

Objectives

- ① replicate point counts in arroyos of Chajul
look for similar situations with good
cross-section from north to south of
study area (≈ 250 points)
- ② look for the extremes that are opposite
to that found in Chajul - more isolated
or other criteria.
- ③ Agricultural land use?

- where can we get gas, food, phones, water
- where can we stay and leave tents set up for several days to work in an area.

19 Jun 93 0720 Gally Forest Rio Launfa

813

1 Social Flycatcher
SBW
NLBD ~~✓~~
AMRE ()

2 0735

Leptoptila ver II -

Catbird ~~II~~ X

NLBD 1

RTAT (II) -

MAWA (I) ←

SOFL 1 -

AMRE (I) WIWA (I) BGTA 1

3 0751

BGTA (I)

YELW

✓ JIR (I)

R

✓ DCFI (I)

SOFL 1

MATI 1

✓ AMRE (I)

~~WSP~~ LINP

YELA (I)

MEJD (I)

✓ ~~BGTA~~ (I)

BHSA (I)

~~WTDO~~ (I)

WIWA (I)

4

- SBPI ~~✓~~ II
- TeII I
- SPWQ I
- AMRE (I)
- HOWA (I)
- RTAT (I)
- WIWA (I)
- BANA I
- ~~Strewn with~~ (I)
- SOFL R II
- RCAT I
- CCTA II
- WTSB I
- MATI I

0830

RTAT (I)
~~SOFL~~ (I)
WIWA (I)
SBPI I
- BANA (I)
PBWD I

20 Jan

Lacandon Rio Area Palestina Rd
Nowhere, some fog.
Pasture

AMRE (1)

BBKI

~~BBKI~~ 1

BT GW

YJIL

VTEN

BAAS

CCTA

BRAT

GRTI

TL Manakin

OBEN

YBCH

SWA

Co To

Grey

BSI

WTDO ~~(1)~~

Catbird ~~(1)~~

RT+GU (1)

NAWA? ~~(1)~~

MAWA (1)

UIHU

2 705

part 2nd growth tall

Chachalaca (1)

MEBT

Dotwing Antwrens (111)

BAST ~~(1)~~ (1)

YLEUA

MAWA (1)

Toucan

Crissal +

LiHe (1)

CATH

Yellow ^{newspaper} flycatcher (1)

RBST

YBCH

SBPI

3 721

SBPI
WTSA (1)
LIHT (1)
WTDO (1)
Jacahar
RTHU (1)
CCTA (1)
WTSW (1)
GANA
AMRE

1

1

1

4 734

WBZU (1)
Parague (1)
MacGillivray's
WHA (1)

1

1

Cercomacra
BTSA (1)

Cercomacra

Tropical Gnatcatcher (1)

SBPI

AMRE ♂ (1)

~~BTGB~~

~~CGAN~~ (1)

HOWA (1)

BAAS

1

1

5 747

AMRE (1)
WIWA (1)
SDPI (1)
BAAS (1)
JITR (1)
BFAT (1)
TUWU (1)

6 807

YTUI (1)
WBWUR (1)
SBPI (1)
Ramphocampus (1)
MAWA (1)
AMRE (1)
VITR (1)

7 814

GASH (1)
BTSA (1)
TRGN (1)
WBWW (1)
KEWA (1)
Rufous Mourner (1)
BAAS (1)
BTAT (1)

9 830

MAWA (III)
RTAT (III)
CCTA (II)
CCW (I)
KEWA (I)
WIWA (I)
CSWA (I)
BAAS 1
RTAU (I)
WEJI (I)
TRGN 1
GRAB 1
WIDO 3 1

10 845

Olivaceous Vireo (I)
NWIA (II)
RCTA (I)
AMRE (I)
VASE (I)
~~WIDO~~ (I)
IBWC (I)
BANA (II)

11 858

MAWA (I)
GRKI (I)

21 Jan partly overcast 50% light/dod
no wind gallery forest
Lacanga River ~~Soil~~ North

1 715

AMRE (I)
GBSP (I)
LHLE (I)
BRAT (I)
DABI (I)
Catbird (I)
RTAT (II)
KEWA (I)

2 728

RTAT (I)
LEFL (I)
GCWA (I)
NODR (I)
AMRE AND (I)
TRGN (I)
VITR (I)
BHTR (I)
SBRI (I)

QJEN (1)

G1+DO

OBS1⁰

LTHE

SKTA

(1)
111
1

5/8/12

SBWW

BAAS

TRGN

MEBB

YOF

~~BTTH~~

WBEM

GFWD

NOIR

TRCI

LIWO

BBGB

Catbird

(1)

11

1

1

1

1

1

1

1

1

1

1

1

6 8/5

AMRE (1)

Catbird (1)

SBPI (1)

CSWA (1)

MAWA (1)

TRGN (1)

SBWW (1)

WBWW (1)

MEBB (1)

WBEM (1)

YBCH (1)

3/7/13

~~WOWA~~ (1)

~~REWA~~ (1)

~~LEWA~~ (1)

LTHE (1)

WOWA (1)

INBU (1)

RUCR (1)

BCWO (1)

4/7/13

TRGN (1) BGON

DHSA (1)

GREL (1)

LEFL (1)

YOF (1)

AMRE (1)

GFWD (2)

MACWA (1)

Fully overcast

LITI 6

7/838

GHTO

DABI (1)

MEBB

GRTI

BHSA (1)

SBWW (1)

BTSA (1)

BAWA (1)

PLXE (1)

SIBPI

CSWA (1)

JACAMAR (1)

BAAS (1)

BWWA (1)

RTAT (1)

~~YFL~~ YFL (1)

~~Estomias~~

AMRE? (1)

8/900

GRTI

SDFL (1)

LITE (1)

LEFL (1)

TRON (1)

SBWW

WEWA (1)

BTGW ♀ (1)

9/913

WDSB (1)

WBWW (1)

KEWA (1)

RTAT (1)

WCPA (1)

SBWW (1)

WEWA (1)

10/925

SDPI

- YBFL (1)

MAWA ♀ (1)

YFL (1)

BANA ♂ (1)

AMRE ♀ (1)

WEWA (1)

CSWA (1)

23 Jan 93 100% clouds
Rio — via Palestina South from Rd.
Nomadic Gallery forest

1/643

AMRE ♂ (1)
LIHE (1)
WIWA (1)
No Catbird (1)
Yell thr Lepidonia (1)
~~add. rattle~~ (1)
CCRO (1)
TRKI (1)
MEBB (1)

2/657

WIWA (1)
AMRE (1) ^{1♂ 1♀}
No Catbird (1)
LIHE (1)
~~add. rattle~~ (1)
BANA (1)
TRAT (1)

3/711

NOVR 33 ♀ (111)
MAUL ♀ (1)
RTAT (1)
CABid (1)
TAWA (1)
~~SHR~~ SBWW (1)

*4/729

Ani (11)
SBWW (1)
RTAT (1)
WIWA (1)
RHUL (1)
KEWA (1)
~~SEOR~~
BGTA (1)
TRKI (1)

5/743

AMRP (1)
SBWW (1)
GHYE (1)
COYE (1)
LEFL (1)
Geothlypis

NOCA (1)

BDGB (1)

WVEN (11)

~~Toucan~~ (6) Toucan (1)

BAWT (1)

BTGZDR (1)

BGGN (11)

~~AAII~~ (1)

BBFL (1) ??

~~SWTDO~~ (1)

6 / 758

TRSW (1)

YWTA (111)

COYE (1)

AMRE (1)

WIWA (1)

~~KIWA~~ (1)

~~QWE~~ (1)

LEPL (1)

GRYE (11)

MANA (1)

GRHA (1)

* 7/811

MAWA ♂ (1)

YBFL (1)

LEPL (1)

AMRE ♀ (1)

* 8 / 824

TRKI (1)

MAWA (1)

WCPA (1)

AMRE (1)

* 9 / 839

BGTA (11)

TRSW (1)

NOWA (1)

GRHA (1)

YENA ♂ (1)

MAWA (1)

YBFL (1)

LEPL (11)

DWFL (1)

NO Catbird (1)

* 10/ 852

SBWW (1)

WCSE (11)

TRSW (1)

YELA ♂ (1)

AMRE ♂ (1)

RBGB (1)

MAWA (1)

LEFL (1)

BAAN ♂ (1)

11/ 912

NowA (1)

LEFL (1)

AMRE (1)

YBFL (1)

BBGB (1)

TRCI (1)

SBWW (1)

BANA (1)

UBWW (1)

YOFI (1)

SNTA (1)

LIWO (1)

BRAT (1)

MAWA (1)

CTBL (1)

♂

28 Jan Clear skies recorded
Jericó Rio Largo north honey east
Gallegos Forest 5

*

* 1/652 Sonido potrero

YELA (1) (ad ♂ h. n.)

NowA (1)

AMRE (1) ♀

COYE (1)

whistle cuckoo cuckoo cuckoo (1) YBCA

MAWA (1)

YBFL (1)

* 1/714

Muskovy duck (1)

MAWA (1)

YELA (1)

CSWA (1)

COYE (1)

WIWA (1) (aggressive int.)

YBCA (1)

RTBL (1) (♀, ♂)

RTAT (1)

AMRE (1)

WTDO (1)

BGTA 11

3/7/50
MAWA 111 Agouti
AMRE 11 Ad 3
WEWA 11
YBFL 1
WEWA 1
DIEL 1
OBSP 1
NOWA 11
HOWA 1
WIWA 1

descending notes BAAS

H3

Center No DBH 12, 14, 20
3/0/0/0 5, 10, 12, 20

Potrero

other side of river

other side of river

Potrero

POTTER

3/0/0/1 4/8/12
3/0/0/0 10/13

1 other side of river Potrero
" " "

Potrero

3/0/0/0 7
3/0/0/1 6, 7, 10
2/0/0/1 8, 9, 10
3/2/0/0 0.54, 6
3/0/0/0 3, 5, 7, 10
3/0/0/0 8, 16

2 other side

"
2/1/0/2 9, 12, 13, 18
8/0/0/0 5, 12, 18
3/0/0/0 1, 4, 5, 9, 12
10/0/0/1 0.5, 1, 2, 3, 7, 10, 11, 20
1/0/0/0 1, 2, 5, 7.

Potrero

3/0/0/1 1, 7, 9

10830

SUTA 1
COYE 11
WIWA 1
AMRE 1
RUCR 1

MAWA	1
BTSA	1
LITI	1
GRSA	1
YBCA	11 29
SAAS	
RTHU	11
BBGR	1
LEFL	1

BBGR	11
NOWA	1
RTAT	1
WTDO	1
RBGR	11

1910 dark horse

MeBD	11
BLVW	1
WIWA	1
GRCA	111
MAWA	1
COYE	1
YBEL	1
LEFL	1
AMRE	2 1

1924

AMRE	1
NOOR	1 Ad♂
YIWA	1 Ad♂
LEFL	1

1956

AMRE	1
RTAT	1
GRKI	1
WIWA	1
SBWW	1
MAWA	1

29 Jan 93

Damasco Secad Arroyo
South, heating soil, Clean
Normal Valley Forest.

* 1/647 #10

AMRE	1
RTAT	1
CSWA	1
WIWA	11
LEFL	1
MAWA	Ad♂ 1

11

2/706

MAWA 1 Ad[♂]
~~OUED~~ BAAN 1 ♂

YEWIA 1

AMRE 1 Ad[♂]

RITH 2

13

4/801

AMRE 1

WIWA 1

WCSE 1

NAGA 1

Acahuai 3m

Acahuai 3m

Potrero

6010 1/2, 5, 7, 8, 12
7200 1/5, 8, 12

12

3/728

MAWA 1

BTS 1

ERTA 1

GRCA 2

AMRE 1

WCSE 1

WDWW 1

Acahuai 2-3m

50%

Potrero

0010 25 10
10001 1/2 2 7 15
0000 —
2110 1/1 2 3 7
8210 1/2 3 5 12

60%

6000 1/3, 5, 6, 20

4000 1/14, 5

5211 1/2, 4, 5, 7, 10, 11, 15

14

5/826

AMRE ♀ 11 DUAN 1
MAWA 1 BHSA 1

95% 1010 9, 10, 5, 11, 12, 18, 24

4100 1, 6, 9, 10

8201 1/2, 13, 17

4301 1/2, 5, 7, 10, 11, 15

9010 3, 10, 11, 12,

9011 4, 9, 12

11002 8, 10, 11

13002 5, 10, 18

Potrero

2/ * #15
 6/9/0
 LEFL 1
 NOWA 1
 WIWA 1
~~BSFL~~
 GEWD 1
 NEBB 2
 OROR 2
 SOFL 4
 CALEG 2

5000 — 50%

2401 4, 8, 9, 11

3103 7, 8, 10

Potrero

Potrero

Potrero

2002 1, 5, 6, 7

Potrero

2/ #11
 Other side of river (similar) 80%
 " (potrero)
 5000 3
 5101 1, 2, 5, 7, 9
 5012 1, 8, 11, 14
 10010 1, 4, 7
 7000 1, —
 6002 6, 8, 12, 17
 1 Potrero

✓ #10
 Potrero
 Potrero

8001 4, 8, 9

9012 2, 8, 9, 10

7101 2, 5, 10, 11, 12, 14

Potrero

11002 1, 3, 5, 6, 8, 10, 14, 18, 20

10000 1, 2, 3, 5, 6, 5, 10, 15, 18

4001 1, 4, 8

29/1/92

Satellite Ground Truth

Santo Domingo Road between
Jericó and Danasco ~~at~~

From Jog in road 1.4
miles from Danasco, ^{school at} 220m (South)
north west side of road

GT1 (Map D45) (Imagery = approx.)

Road bordered by dense herbaceous
growth 5m wide. Field is second
growth - herband shrub base to
about 3m with scattered taller
trees about 10m tall. Extends
to base of hills where there are cleared
croplands and to North until ~~west~~
pastures which abut the next arroyo.

Photo Roll #1 Frames 6-8

GT2 (Map D45, Imagery = Aprox.)

From that arroyo 300 m further
north along road on west side.

Herbaceous border on road side 4-5m with
some trees 8m tall. Low herbaceous
vegetation (some grazing) about $\frac{1}{2}$ tall than
about 20m in taller (1-1.5m) undergrowth
with dense (2-3m apart) short trees
up to 8m tall covering 2-3 ha.

Roll #1 Frames 9-11 ¹² other side

Ground Truth

GT3 (Map D45) (Imagery = Aprox.) Cristóbal Colón
Road Between Danasco and San José Pantaleón
0.6 miles North of Danasco looking
west 2m ^{tall} herbaceous border 4m wide
along road, grassy understory $\frac{1}{2}$ m tall
some shrubs, moderate density of trees
(3-4m apart) averaging about 4m tall
some up to 8m. Clump of trees ($\frac{1}{2}$ ha)
immediately to south, small rise immediately
to north. Hills behind are mostly
barren. Across road to east vegetation
similar. Small pond bordering road.

Roll #1 Frames 13-15 ^{opposite} 16

30 Sep 93 $\bar{\epsilon}$ Javier

Cloudy Nourish, Gallery Forest
Arroyo Cristal de Colón 2nd ~~st~~
South of " heading west of road

#9
1/646

AMRE

Ad♂

LIWO

X RCMA

1

X SUTA

1

X RTTU

1

X BGTA

1

#10

2/700

YTEU

2

BTSA

III

BGGN

1

VTR

II

WBWW

1

BHSA

III

GFWO

1

X GMTA

1

high trill

DUAN

1

SHWO

1

X Slaty breasted Flycatcher

1

deeper trill

CSWA

1

RTAT

1

HOWA

LIWO

#11 3/720

BAAN

BB Grasquit

III

NAWA

1

LAWO

1

YOL

1

LEFL

1

LIWO

1

BGNN

1

AMRE

1

#12

4/734

AMPLI

1

#13

5/747

BB Grasquit

1

NAWA Ad♂

1

high pitch tseep

#14

6/759

GRKI	1
BBGR	♀ 1
* YTEU	11
NOOR	1
RTAT	1
TRPL	1
SBWW	1
WTDO	1
* PTHU	1
WCSE	11
VASE	1

hi peeo

COYE	1
YBCH	1

8/827

#16	NOOR	111
	MAWA	11 (1AD?)
	GCYT	1
	YEWA	1

#17

9/1802

WTDO	11
ARRE	1
HOWA	1

#17

9/ 10/01	3, 9, 10, 12
Potrero	
Potrero	
10 002	5, 55, 6, 7, 8, 12
7, 3, 02	12, 5, 10, 11, 18
Potrero	

65%

#16

8/ 11, 10/1	2, 3, 8, 10
9, 000	2, 25, 3, 4, 8, 9
Potrero	
Potrero	

70%

KIS GRKI Great Kiskidee (

LEUJ	1
YEWA	1

10000

Potrero

2, 2.5

~~#15~~ 7/ 4200 2, 2.5, 3, 3.5, 4 50%

1200 1, 3.5, 4

Potrero

Acahuai 3m

Potrero

Potrero

~~#14~~ 6/ 18, 2, 0, 1 35, 4, 20.

20% 3011 7

Potrero

~~#13~~ 5/ 7001 9, 9.5

25% 5000 2

Potrero

Acahuai 2-3m

"

"

"

~~#12~~ 4/ 8001 1/2, 2, 3, 3.5, 5, 8.

30% 13100 1/2, 1.5, 2, 3, 4

10000 1/2, 3, 4, 5

~~#11~~

3/ 5001

8000

20%

~~#10~~

1/2, 1, 2, 8, 10, 11, 12

1/2, 1, 2, 3

Potrero

2/ 11200

95%

10000

13411

5,002

4, 5, 12

1/2, 3, 5, 6, 7

1/2, 1, 8, 8.5, 9, 10, 15

1/2, 3, 4.5, 6, 7, 12

~~#9~~

1/ 10110

9216

25000

6, 112

5

1/2, 3, 8

3, 4, 7, 12

1, 2, 5, 7, 9, 11

~~#13~~

1/ 659

Now A

~~GRAN~~ BBGR

SAWA

SOFL

GRRL

1

1

11

1

1

31 Jan 93 Overcast Nowind
Lacanja Sintil Rio west towards
Cintalupu

MAWA ♀ 1
 BGGN 1
 AMRE ♀ 1
 RBGR ♂ 11
 YOPL 1
 YTVI 1
 RTHU 1

2/7/13 #14

AMRE 1
 Puffy ^{Tyrannulet} Like down & orange stripe
 white Baracoss head 1
 YEWA 1
 DUFL 1
 MAWA 1

3/7/13 #15
 Sun coming out

MAWA Ad♂ 1
 RTHU 1
 ORHA 1
 AMRE Ad♂ 1
 SNTA 1
 NOR 1
 WWWW 11

* 4/7/16 #16

NATI 1
 MAWA ♀ 1 1♂
 SUFL 1
 BRJA 1
 AMRE Ad♂ 1

5/7/17 #17

BGGN 1
 MAWA 1
 LJHL 1
 BANA 11
 GRCA 1
 SHWO 1
 WIWA 1
 AMRE Ad♂ 1 1?

NOWA 11
 BBGR 1
 SUFL 1
 SJPI 1

~~Buff-throated Folio Gleaner~~ 1

Overcast

#18 8/33

6/ BDGR //
BBGN //
SDWW //
AMRE //
RTAT // //
WBWW //
HOWA //
M. ORO Pauda //
RLPA //

#19

7/ 850
MAWA ,
SOF L ,
BHSA // //
RLPA //

* #20

8/ 907 SRTA //

YPCH //
WCSL //
ETWA //
CYLE ,
GRCA //
MAWA //
LEFL //
BBGrauit //

WBWM //
Toucan //
AMRE Ad 3 //
GFWO //
YOF L //
CCTA //
BHSA //
BAW //
RTAT //
GBSP //

* #21

9/ 928
BHSA //
WIWA //
MAWA //
YBCH //
LEFL //
BBFL //

Acahual x 4 3-4 m high 25%
8000 12, 15, 2 m wide
1001 7, 8, 10
7000 4, 5, 6
8100 1, 3, 3.5, 7, 14
6001 1, 3, 5, 7, 12

87 Acahuil x2 1-2m 2m wide
 Acahuil x5 2-3m 20%
 5100 2, 3, 5, 7, 10
20001 1, 2, 25, 27

7/ 6002 1, 12, 14, 17 100% 3m wide
 6101 5, 7, 8, 9, 10, 15, 22
 5003 1, 2, 5, 6, 8, 10, 11, 12, 15
 6000 1, 5, 12, 15, 17
 5002 1, 2, 6, 10, 12, 15
 12100 1, 3, 5, 6, 5, 7, 5, 12
 0002 1, 10, 11, 22, 27
 7100 1, 2, 7, 14
 7, 101 1, 2, 8, 9, 10, 12, 15

6/ 3m wide 100%
 6001 1, 3, 4, 5, 20, 21, 22
 6100 1, 5, 10, 23
 11, 101 1, 6, 8, 8, 5, 9, 15
 13001 1, 2, 4, 5, 25
 5001 1, 1, 12, 12, 5, 13, 14, 17
 13100 1, 6, 12, 18
 1, 1, 0, 0 10, 12, 15, 20
 9000 2, 5, 10, 12
 9000 3

5/ 10001 34, 5, 7 60%
 8100 28
 4110 3, 15
Potrero x 4
 1230 6, 9, 27
 83, 03 3, 3, 5, 5, 7, 8

3/ Potrero x 4 3m wide 25%
 0002 2, 2, 5, 3, 4, 4, 5, 5, 10
 8201 2, 3, 4, 5, 5, 5, 6, 7
 7001 1, 1, 10, 12, 15
 0001 1, 2, 3, 5, 5, 10
 6000 1, 3, 6, 7

4/ 2m wide 50%
Potrero x 6
 6000 1, 1, 3, 5
 8110 1, 1, 2, 6, 7
 7110 3, 5, 6, 5, 9

2/ Potrero x 4 25% 1.5m
 3000 6, 8, 9
 5000 1, 2, 2, 5, 3, 4, 5
 10001 1, 3, 3, 5, 6
 6000 2
 5001 2, 2, 5, 10

25°
4m

✓ 9002 1/2, 1, 2, 5, 3, 5, 6
5000 1/2, 1, 5, 2, 2, 5
4001 6, 12
2000 1/2, 3, 20
10200 2, 5, 15, 17

Potreru x 4

1/2/93 50% clouds
V0638 No wind

BAAN 1

OBSP 1

LEFL 1

BAWA 1

CSWA 1

MAWA 1

NAWA 1

AMRE Ad♂ 1

YBFL 1

WTDO 1

GRCA 1

2/6/91

WIWA 1

YTOR 1

NAWA 1

YBCA 1

Toucan 1
BGTA 1
CCTA 1
BGON 1
GHDO 1
YTEU 1
CSWA 1
GRAN 1
Jacamar 1
~~APT~~ 1
BCTI 4

3/7/93

EBOR 1

YBCA 1

NAWA 1

AMBE 1

WTDO 1

BTSA 1

CSWA 1

IBWO 1

BBGR 1

BTGR ♂ 1 (juv)

BAWA 1

YBCH 1

SBWW 1

Toucan 1

LEFL 1

4/0717
LEFL III
BGGN 1
YTDR 1
WIVI 1
GRAN 1
MAWA 51
SBWW 1
SRTA 1

RTAT 1
YBCH 1
AMRE 1
WIWA 1
GRAN 1
MEBB 1
BAAN 1

5/729
NAWF 1
GRCA 1
NOWA 1
BGGN 1
BTGR 1
PBWO 1
CSWA 1

7/802
BGGN 1
SBWW 1
WTDO 1
RTAT 1
WIWA 1
BTGR 1
SHWO 1
AMRE 1 1 Ad. ♂ 1 ♀
OLWO 1
GRCA 1
CSWA 1
LIHL 1
GRAN 1
GBWW 1
DUAN 1
LEFL 1
MEBB 1

6/744
GRCA III
BTGR 1
BGGN 1
CSWA 1
SBWW 1
GRKI 1
MAWA 1

8/82

AMRE	1	Allo
GHDG	1	
YBFL	1	
MAGA	♀	
LIHE	1	
CCTA	11	

60%

40%

2-3m wide

recently cleared (with weeds)

7/

50%

Arroyo

3m wide

8/9

40%

recently cleared

10%

thick veg 2-3m tall

9/837

BTFG	1	
WBWW	11	-
TLMA	1	whistled -
NOBB	1	
YBFL	1	

dead Jay

11,00

15

9200

6,8,9

Acahuil

3,5

2-3m

6/

6000

2,3,4

thick vines

8/8

4001

10,25

"

5001

6,7,12,15

2m wide

2 cleared

60% Arroyo

30% cleared

10% Acahuil

* Stream 1m Continuous Forest
at least 5-10 ha 100%

14000 1, 2, 3, 5, 10, 12, 15

13100 1, 4, 5, 7, 9, 12

12100 1, 2, 7, 8, 3, 4, 5, 7, 9, 15

7100 1, 2, 5, 6, 7, 14, 18

5/ 13100 5, 7

8/ 2001 1, 8

4 x Potters

3m wide

308

2000 1

2, 4, 5, 10, 13

8/12011

4, 8, 9, 13

* 2021

1, 5, 5, 6, 12, 25

3100

6, 8, 9

5300

3, 5, 5, 6, 8, 14

(clearing)

#16

4/ 2m wide 70%

2 X Potrero

2 X Acahual 4-5m

13100 2-5, 5, 7-5

4001 2-5, 6, 6.5

#15

3/ 2m wide 55%

5100 1, 24

2 Potrero

2 other side Forest

9010 2.5, 3, 4.

2010 4, 5, 6

#14

2/ 3m wide 60%

7600 1.5, 2, 7

2 potrero

2 other side Forest

8300 2, 2.5, 3, 4, 4.5

1/ #13

3-4m wide 50%

5000 2, 3, 4, 4.5

6010 2-5, 6

2, potrero

2 other side Forest

Roll #1

~~Frames 23-28~~Frames 23-27 taken of Arroyos
first points and recently cut area

2/2/93

No wind, No clouds but
fairly heavy fog. Visibility 200m
Colley Forest Rio Santo Domingo
heading N.W. from town

*1/6:38

WIWA	1		
AMRE	9	11	8 ¹ 1
MAGA	3	11	
SDWW		11	
BBFL		111	
YWTA		1	
YEWA	5	1	
SOFL		11	
BGTA		1	
MBBB		1	
RBGR	5	1	
YTVI		1	

BGGN 1

BTGR ♀ 1

Arroyo. still foggy

2/723 1/2 m wide
not valley & pasture
both sides

LEFL 1

AMRA ♀ 1

MAWA ♂ 1

3/726 1/2 m

AMRO Ad♂ 1 ♀ 1

BGGN 1

RTHU 1

YEWT ♀ 1

DUL 1

AWTDO 1

LEFL 1

* 4/753

GCYL 1

CAEG 1

LEFL 1

MAWA 1

5/820 Rio Santo Domingo

GBHCON 1

GRCA 1

SSWW 1

MEDB 1

LINL 1

* 6/835

LIHE 1

BGGN 1

RTHU 1

LEFL 1

YBCI 1

GIVE 1

GRCA 1

WAWA 1

AMDL Ad♂ 1

7/850

SBWU 1
 AMRE ♀ 1 ~~Am♂~~ 1
 BHUU 111
 BGON 1
 NOWA 1
 MAWA ♂ 1
 CAEG 1
~~REAT~~ 1
 Wren? " " "

8/907

NOWA 1
 RIKI 2
 MAWA ♂ 1
 WDO 1
 BGTA 11
 NDR. M♂ 111 1.21
 OROR 1
 BTGR ♂ 1
 AMRE ♀ 1

9/921

VBCH 1
 AMRE Ad♂ 1
 LEFL 1
 BAAN 1
 BGON 1
 MASKed Tanager 2 X
 MERBD 11
 SRTA 111
 NOWA 11
 NDR 2
 BGTA 11
 NIWA 1
 RTJN 1
 GRCA 1

00%	1000	0	1, 2, 2.5
0m	9120	0	4, 5, 6, 7, 14
	6000	0	5, 5, 6, 7,
	Milpa (corn)		
	Milpa (corn)		
	Ri,		
	Other-side (Simitu)		
	6000	0	1, 1.5, 12
	1100	0	1, 2, 3, 3.5, 15

8/ 8m Potrero x2 60%

6002 1/2, 5, 14

14010 1/2, 1, 3, 5, 8, 14

18203 2, 3, 25, 5, 6, 78, 10

Rio

Other side (Jaen veg)

9001 1, 7, 11, 17

9080 1, 1-5, 2, 7

15m wide 60%

5/ 7000, 1/2, 2, 4, 7, 8

13000, 2, 4, 5, 7

6200 4, 5, 8

15m wide 7, 100 5, 6, 5, 8

40% 12000 5, 6, 7

Rio

Other side

acahual

2m

chile

7/ 12m 50%

11000 1/2, 1, 5, 2, 5, 4

28000 2, 2, 5, 3, 2, 3, 5

5211 1/2, 2, 4, 7, 5

2 Potrero

1 Rio

Other side veg up to 15m

14000 1/2, 1, 5, 2, 3, 9

20000 2, 5, 3, 5, 7

4/

6100 1/2, 2, 3, 5

5m marshy

Acahual

Sparse up to 4m 100%

6/ 8100 1/2, 5, 5, 5, 6, 5

11002 1, 7, 8, 9, 12, 22

Potrero x2

Rio

Other side 15m veg

4000 1, 2, 5, 12

5100 1, 6, 7, 11, 15

8003 1/2, 1, 5, 2, 4, 8, 24

3/ Surrounded by sparse Acahual / 34m

x 7

0102 1/2, 5, 6, 7

3020 1, 2, 5, 3, 4, 5, 6, 6, 5, 7

Y₂ in

2/ 8000 Y₂, 2, 5, 5, 5, 7, 9, 12
7000 Y₂, 4, 5
1940 Y, 4-5, 5
2010 Y₂ 5, 6, 7
8100 6, 6, 5, 7
Sparse acacia 3-4m
70%

BANA 1
BGON 1
YBFL 1
IOWA 1
BAAS 1
VTLN 1
G7GR 2

Nowind Clear, no fog
Rib S-D 2 km NW along road to
La Area [3/2/93]

Y653 BBGR 1
GRCA 1
AMRE ♂ 1
AMKI 1
RTIH 1 1
NOOR 1
NOWA 1
IBW 1 1
MAWA ♂ 1
SOFL 1
GBSP 1
YBCA 1
WEUI 1
COYE 1
MEBB 1

2/718
VTOR 1 1
LTHL 1
GBSP 1
RTIH 1
LTHL 1
NOWA 1
GRSA 1
UCSE 1
COYE 1
MAWA 1
SBWW 1
NOOR ♀ 1
MLEBB 1
WTSA 1
GRCA 1
OROR ♂ 1
LFL 1

37733

MAWA ♀, ♂,

COPE 1

NOWA 1

~~PTHA~~

LTH^E 1

MEBB 11

NOOR 3 (2818)

OROR ♂ 1

GRCA 1

LTH^E 1

RBGR 1

AMRE 1

4/747

WTDO 1

PBWO 1

MAWA 11

SBIUW 1

AMPI 111

WCSE 11

GRCA 1

NOWA 1

LBFL 1

SQCU 1

WISWA 1

5/818

GRCA 11

MAWA 1

SOFL 1

Jacana 1

GRSA 1

BAAN 1

VOFL 1

WIWA 1

YBCH 1

LEPL 11

BGGN 1

BBFL 1

WTDO 11

MEBB 1

WIWA 1

YBCA 1

6/836

RTST 1

GDSP 11

GRSA 1

MAWA ♂ 1

PTHA 1

YBCH 1

COYE 1

NOWA 1

LEFL 1

NOOR 1

GRCA 1

~~CEFA~~

GREL 1

SBWW 1

YBCA 1 5 ♀

BAAN 1

SRTA 1

7/851

WIWA 1

AMKI 1

YBCA 1

NOOR 1

MEBB 1

YOLF 1

AMRE 1

YTVI 1

MAWA 8 1

YOLF 1

LTHE 1

RTBE 1

20/1/0/0 1, 2, 3, 4, 5, 7, 8, 25,
7 0 0 0 1, 12, 16, 20

Yanwide Scrubby Acarval 3-4m
dense

8/9/1

MAWA 1
WCSL

Test of Roll #1 taken of Rio Santo Domingo
Ground Truth looking North
above these points

On road from North Haulley
towards Ubilia Garcia
50 paces (Map D45, not on imagery)

GT 4 open grassland with scattered
trees 3-4 m tall (road takes a turn
left then down) small arroyo at
bottom of slope then into mix of acarval
variable height up slope to hills which
are forested

Roll #1 36 37

Roll #2 0 1

HT 1 600m

GT 5 (Map D45, not on imagery)
Potrero to North side Q

more dense acáhuatl 2-3m tall
running up to arroyo with
some gallery forest. Hillside, dense
acáhuatl at base, milpa
mid slope at crest, forest
of hill begins.

Roll #2 Frame 2-4

GT6 (Map D45, Not on Imagery)

~~HTT~~ | ~~HT~~ | ⁺²⁰ 800m
(Map D45, Not on Imagery)

Rolling terrain, acáhuatl sparse
up to 3m tall down to lower
area with dense scrub, cane
grass, to Hillside with thick
tall acáhuatl, some milpa
into forested Hillside

Roll #2 Frame 5-7

~~HTT~~ ~~HT~~ ~~HT~~

50

3300 paces (2.75 km) from
School yard to furthest point walked
NW along road

3/2/93

Ground Truthing

From Ubilio Garcia to Arroyo Granizo
and Santo Domingo. Distance measured
from last building in Usilio Garcia.

61.6 mi at Power line/House in town

GT7 (Map D45, Not on Imagery)

62.6 mi powerline crosses road for
second time, road going along ridge
to East side, pasture with short
grass (cane grass border on roads
3m wide). Sparse trees rare
10m apart 4-5m tall

Roll #2 11-13

(Map D45, Not on Imagery)

GT8 Short Grass border road to ~~NE~~
~~EE~~ downstream tall grasses pastures
in front most density acáhuatl 3m tall
grazed

65.9 mile

Roll #2 14-17 18 st ~~soil~~

165 Arroyo
both sides by motor boat took

Arrive Arroyo Seca 66.6 miles

4/2/93

Cloudless light fog/limit, no
wind, Santi Domingo River upstream
from State houses.

*

1/06/93

BBFL	1
WIWA	1
MEBB	2
LEFL	1
NWTA	1
BGTA	111
MAWA	11
AMRE	2
BGGN	1
BIGR	1
BAAN	1

* 2/7/8 Arroyo Seca

GRCA	1
NEBB	1
AMRE	2 11
LEDI	1
NWTA	1
BTST	1
COYE	1
WIWA	11
GRAS	1
BAAN	11
WTDO	111
LEFL	1
BGGN	1
SBWW	111
NOOR	111
YTVI	1
CSWA	1

75%	5200	1, 2, 3, 10, 12 (Vines)
	Acahuil	1-2m
	6000	1, 2, 3, 4, 5
	7000	1, 3, 9
	13010	1, 2, 6, 7, 20
	21001	1, 2, 3, 5, 9, 18
	2210	6, 7, 9, 12, 15, 18
	18201	1, 10, 12, 15

3100 2,5,7,9,10

8m wide 100%

3/814 Rio SD

YBCA 1

BIGR 81 1

WJWA 1

3/ 7000 1,3,10

4000 1,2,25,8,10,15,17

5000 1,5,12,16

12,000 1,2,4,8,10,13

0002 10,17

Other side

"

11,3,00 1,6

4200 1,5,7,3,5,6

4/829 Rio SD

CSWA 1

TLWA 1

WOWA 1

MAWA 1

SBWA 2

1/ 5110 4,6 60%

1010 1,4,5,5,5 12m wide

4332 1,5,7,7,5,8,10

Rio

Otherside

Putreco

Putreco

13,120 1,2,3,7,8

500 1 1,5,7,9,10

8m wide 19,000 1,2,7,18

100% 8000 1,2,5,5,12

7000 1,15,16,20

14000 1,3,5,4,7,12,4

7100 1,2,3,3,4,7,2,20

12100 5,5,1,6,2,

18,000 1,2,4,5,6

Rio

Otherside

5/934

BGCR 1

Nawa 1

15m wide 70%

2001 1/2, 3, 5, 5, 11, 14

2001 2, 2-5, 7, 5, 12, 13

5002 1/2, 6, 6, 5, 7

Cerro

Potrero

Rio

Other side (15-18m)

4001 6 8

Potrero

GT9 (Map D45, not on Imagery)

looking to NW from Sto Do
to El Limon, pasture with
scattered tree to 4m border onto
fragments at 8m height. close to
hills (forest on)

RMH2 frames 19, 20
21, 22 other side

70.0-71.5

800m from where road turns
at bottom of hill

1.5 miles ^{North} From Sival ~~Rd~~ Road

Frame #23 Road Conditions

73.9 = 2.4 miles Sival Rd.

GT/0 ^(Chap D55 not on imagery) Sival Rd - Limonar

3m Cane grass, acahual (2-300m
deep) 2-3m tall moderate density
Power lines running through parallel
to Road Forest fragments on other
side of acahual further to south
(50m) pasture. Behind me is forest

RMH2, 24-26

73.1 mi Limonar ^{Ch} _{Leave}

72.8

77.1
(map D55 not on Imagery)
2.1 km
2.2
GT 11 Likoma - Cintalapa
Looking East

Stand of tall trees in a line
perpendicular to road 200m N
of position. Dense acacia
after road border of short grass
3m wide. Acacias are 5m
tall, power lines running
through area. West side
similar but higher 8-10m tall

Roll # 2 2728
2a opp

77.5 road enters

Forest

77.8 leaves &
power line

78.5 enters Cintalapa

GT 12 (map D55
Not on Imagery)
Cintalapa - N. Palestina 21

triangle 6m tall acacia
at tip (1 mite) 4m 0.2 m
at base

Frame 30, 31 N. Palestina Arroyo
Aqua Azul
32, 33 Other Arroyo

GT 13 (Not on Map, on Imagery)
- 1 mile along Nva Palestina Rd
heading east. Temporary marsh border
(Factory South) 10m, Power line,
then scrubby second growth with
mod density tall dead trees. Vegetation
grows 4-6 m. One patch of trees
500m away. That extends in a
line SW-NE.

Roll # 2 34-36
37 opposite 5.26

9/2/93

Ground Truthing From
San Javier Intersections

88.1 Mi

93.5 N de Ojo de Agua

93.6 Road face 2840 (Map DS6, Duangay)

GT14 100 m past (H) Ojo de Agua

going north facing 10°
grassy vegetation on road side (1m tall)

extends 10m to shrubby second

growth 3m tall with few emergent
trees up to 6m tall. covers about
(50 x 50m) then upslope in pattern
of small forest fragments 10-15m
tall with patches of corn field

Roll #3 Frame 29-31

32 Other

96.1 Mi

GT15 Road bearing 282° (Map DS6, Duangay)

Just North past forested clump
(ideal that pale green along edges
may be a reflection of vines that
cover edge of forest ??)

dense herbaceous and woody vegetation
about 2m tall dominates with a line
of trees 15-18m tall parallel to
road, ridge of hill has taller vegetation
than surrounding scrubs (8-10m)
(Facing 24°)

Roll #3 Frame 33-35

other 36

96.9 Non-Palaeotaxa Road

100.4 Road 291° View 14°

GT16 (Map DS6, Duangay)

overgrown cropland, dense herbaceous
woody vegetation 2-3m tall, from
road side to crest of hill, which have
trees 10-15m tall to east along road
as small hill with 15-18m veg as well
to west

Roll #4 Frames 0-2

GT 17 101.8 (Map DS6 = Juayay)
shows as clearing on
unclassified and ~~some~~ orange
on classified

Road 356, Facing 263°

Thick underground woody
vegetation 3-4m, overstory
dominated by *cecropia* (10-12m)
with some other species all
along valley

Roll #4 Frames 3-5

GT 18 103.4 mil (Map DS6 - Juayay)

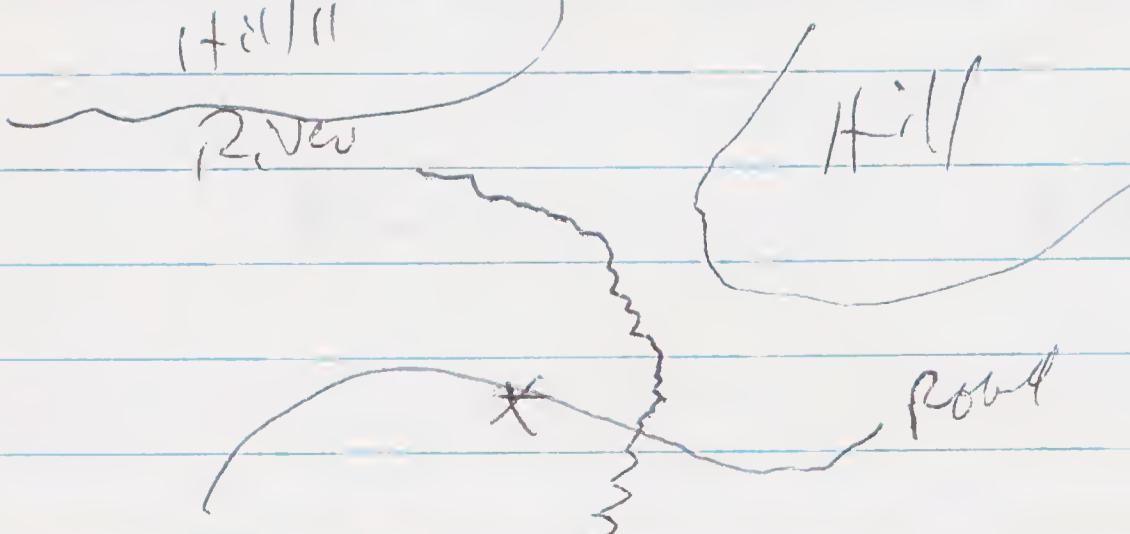
Show pale green on classified
data at nearly 90° turn in road
in valley between 2 forested hills

Road (349° before turn) Facing 62°

Border of road woody vegetation

2-3 m tall goes down into valley
with small river 3-4m wide

14/11/11



Vegetation throughout 10-15m
tall. Opposite side shrubby
4-6m with some emergent trees
10-15m

Roll #4

6, 89

1 other side

102.0 Viejo Velasco Square

5-6 pts for gallery?

GT 19 107.2 mil Just across

Map DS6 UTM 68 (?) Road 300°

Juayay Facing 224°

herbaceous/woody shrubs dominant
with density of trees (8-10m
tall varying) Little in the way
of landmarks to get exact position
but typical of this entire area
(2-3 km of road)

Roll #4 10-12

out Busilja GT 19.1
(Ivagay)

From 107.7 to 109.8
(Nra Franco Leon) not much
on tops/vegetation is much the
same with a dense understory of herbs
and up to 10m tall trees
dominated by ceropia, hills to
west throughout seem to be covered
with forest.

Few arroyos throughout

Start 110.4 mi
(Map D46 Ivagay)

GT20 111.4 mi Road 296°
Heading North just past Busilja
and Nra Franco Leon, large pasture
area on border with second growth
larger patches of forest to north.
Area of second growth dense
vegetation 6-8 m tall with
a few emergent trees

Roll #4 13-15

114-0 Huisoja

(Ivagay) Map D45 wet shore

GT 21 114.2 Huisoja 0.2 miles
behind. Typical of this area dense
secondary vegetation 6-8 m tall
(just past an opening where pool forms
along creek that runs down from
hills to west. Shows on cleared
plots) Some emergent trees 12-15 m
tall.

Roll #4 16-18

(Ivagay) Map D45 wet shore

GT22 117.4 Just passed through
about 1 mile of pasture on both sides
with heavy grazing. Small patch of forest
thinned out (about 1/2 ha, tallest 18-20m)
with understory of herbaceous and woody growth
from 3-4 m outside rim to 8-10 m in centre
Some grazing in area. Along road
further NW area is more open with
grasses and low density of some trees (up
to 20m tall).

Roll #4 19-20

117

10/2/93

Clean Shores, Novo Rio,
Nth of Sparanya.
Gallen Forests Heading
upstream

#1
 1/627 VBCB 1
 GRKI 1
 WIWA 1
 SBWW 2
~~BBGnat~~
~~WSE~~ 1
 OROR 11
 NUUR 1111
 VTLL 1
 NOWA 1

#12
 2/645

LEEL 1
 LISE 1
 CYCE 1
 NOWA 1
 GRCA 1

10/2/93

Just upstream from Hill and logjam

* 3/701

#13

CAEG 1
 SOFL 1
 GRCA 11
 MEBB 1
 WLSSE 2
 COYLE 1
 LLFL 1

* 4/717

#14

PUGR 1
 SUWA ♂ 1
 GRCA 1
 LEEL 1
 Ahi 1
 BBBL 111
 COVE 1
 WLSVI 1

* 5/745

#15

WLSSE 2
 SBWW 2
 Aratinga > 111
 YELWA 2 1
 MAWA 1
 LTHL 1

10/2/93

BGTA 1
AMRE AdG 1

* #16 6/80² Benice vil/pu

GRCA
BAWA ♀ 1
MAWA 1

GRK Iskabe 1
nasit whis whis whis slight decast.

* #17 Burst after house
7/83C

TR Mock 1
PATY 1
Bry/Harday Tengyr? 1 Thrush like Mawakim
WTDO 1
S₂ FL 1
TLWA 1
BRAT 1
AMRE 1
GTGR 1

* 8/85C
#8 GRCA 1
WEFL 1
SUTA 11
WCSE 1
WIWA 1
BTGR 1
DAWA ♂ 1

* 9/90⁵
#9 GRCA 1
HOWR 1
VBCH 11
BG&N 1
AMRE Jan ♂ 1
JASL 11
RAGR 17
MAWA 1
GRAN 1

* 10/920
#20 BAAN 1
BS² ST 1
SBwW 1
GRCA 11
WTDO 1
AMRE 2nd ♂ 1 1

10/2/93

NOWA 1
GRKI 1
BBFL 1
BCTI Tyra 1

11/ 940

#21 AMRE 1
MAWA 1
BAWA 1
DINTA 1
BHTR 11
NOWA 1
w^cSE

River 8m wide 50%

16210 1/2, 3, 3.5, 4, 8, 9

Other side (same reg)

Potrero

Potrero

Potrero

12000 1/2, 1, 1.5, 2, 2.5, 4

13000 1/2, 2, 2.5, 3, 3.5, 4, 5

16000 1, 2, 2.5, 3, 3.5, 5, 6

4210 1/2, 2, 4, 5

10/ River 10m 75%
10205 2, 4, 4.5, 10, 12
13000 1/2, 4, 6, 8, 15
Rio
Same Reg other side
Potrero
Potrero
9000 1/2, 6, 7
10000 1, 3, 6, 7, 10, 11
12000 1, 4, 4.5, 5, 6, 7

9/ 8m wide 40%

5200 1/2, 1, 4, 5

6000 4.5, 6, 8

Other side similar

9

Potrero

Potrero

8000 1/2, 1, 7

5100 1/2, 1, 1.5, 2, 7, 10

7000 1/2, 1, 2, 2.5, 4, 7, 9

10m wide 60%

8/ 12010 $\frac{1}{2}, 2\frac{1}{2}, 5, 6, 6\frac{1}{2}, 7, 9, 10$
5000 $\frac{1}{2}, 1, 2, 4, 4\frac{1}{2}, 5, 10$
4000 $\frac{1}{2}, 2, 2\frac{1}{2}, 4, 6$

Rio

other side (same)

Putrevo

Putrevo

7000

$\frac{1}{2}, 1, 2, 2\frac{1}{2}, 4, 4\frac{1}{2}$

4,010

$\frac{1}{2}, 2, 4, 8$

Rio A

Annual

Milpa

Milpa

6100 $\frac{1}{2}, 1, 7$

12000 $\frac{1}{2}, 6$

11000 $\frac{1}{2}, 10, 20$

3000 $\frac{1}{2}, 8, 16$

2000, $\frac{1}{2}, 1, 1.5, 2.5, 4, 4.5, 5$

7/ 15m wide 50%

8100 $\frac{1}{2}, 2, 5, 6, 8$
9000 $\frac{1}{2}, 2, 2.5, 4$
4000, $\frac{1}{2}, 1, 1.5, 2.5$

Rio

other side (6-8m)

Putrevo

Putrevo

7000 $\frac{1}{2}, 1, 2, 2.5$

4000, $\frac{1}{2}, 1, 3$

5

8m 40% Putrevo 20% annual
10% Annual

9100 $\frac{1}{2}, 1.5, 2.5, 4, 4.5, 5$
8000 $\frac{1}{2}, 1, 2, 2.5, 3, 4, 4.5, 5$
4304 $2, 4, 4.5, 6, 7, 8$
Annual 6m

Putrevo

"

3000 $\frac{1}{2}, 1, 1.5, 2, 2.5, 4$
2010 $\frac{1}{2}, 2, 3, 3.5, 5, 8$

6/ 8m wide 10% milpa

40% Milpa (old)

other side 50% Annual 6-8m

10/2/93

4/ 10m across 40%
7001 2.5, 10, 11, 22
Río
Potrero
Potrero
Potrero
5000 $\frac{1}{2}, 2, 3, 5$
4, 1, 11, $\frac{1}{2}, 7, 9, 10, 11$
3000, $\frac{1}{2}, 2, 8$
1010 $\frac{1}{2}, 3, 4, 5, 6$

2/ 10000 River 15m wide 40%
~~8~~ 1, 1.5, 2, 3
12 000 $\frac{1}{2}, 1, 3$
40 000 $\frac{1}{2}, 1, 2.5$
Río
Other side (Potrero)
Potrero
" 12 000 1, 4
1300 1, 2.5, 7

3/ 10m 40%
43000 $\frac{1}{2}, 2, 4, 5$
10,001 $\frac{1}{2}, 1.5, 8$
Río
Other side (Potrero)
Potrero
Potrero
4000 $\frac{1}{2}, 2$
8000 $\frac{1}{2}, 1.5, 3$

12m wide
V 5001 $\frac{1}{2}, 1.5, 2, 3.5, 4$
Potrero
" 6100 1, 2.5, 5
7110 1, 3, 6, 7
7110 $\frac{1}{2}, 1, 2, 2.5, 3, 4$
Río
Other side Acahuil 2-3m tall
0002 6, 7, 10, 12.

10/2/93

Roll #4 Fr # 2122
N. Esparanza Rd
12 yrs after Deforestation

125.5 from NE Rd.
GT 23 <sup>up 045
Jungar</sup>

126.2 - 126.6 Passing through
town Nra. Ojo de Agua on
NW side of road moderate to high
density vegetation 8-10 m tall
with scattered houses throughout, some
paths leading away from road (100m?)
vegetation north of town along road
pasture with scattered trees (Fernales
mostly)

GT 24 128.0
Location based on
classification may be slightly
west

Passed Heradura pastures (Road 290°)
on North side

3m border on road 3m tall shrubs
to 8-10m tall trees. Vegetation is
thick with *Ep. Obium* vines, few
palms, *Cecropia* reaching 6-8 m
extent seems large can't see any
indication that it quits soon

Other side of road is a milpa, 100

m to north is a small separate
hill abutting the road but separate
from the main range

Roll #4 Frans 23-24
25 other side
Ends ~~start~~ 23.1

GT 25 Shorter 46m long
road then open 200m long
7m deep, behind is same type
of habitat

GT 25 129.8 (Jungar) ^{up 045}
Road 290°, upstream (Palerque)
Sided Chocojia opening 8°
From E + W

Pasture with broad scattering of
mostly dead trees (10-15m apart,
18-20m high) get thicker (mostly
palms with 4-6m understory). Forest,
road bordered by pasture 80m wide,
is 12-15m high at this end, very dense
vegetation no distinct lower or upper storey

Roll # 4 Fr 26 - 28

11/2/93

Light wind
Slightly overcast
45%

130.3 Mi Circular swamp starts

GTZC 131.7 mi N opening +20°
Road 2990
Broad area stretching across the
valley, widely scattered trees
Road bordered by pond, band on
ground - likely swampy through
area, poor visibility
Other side of road is running up
against the forested hillside.
Tongue more dense stand of trees
on bearing 320°

Roll H4 29-31

at Nun Canán / Once de Julio

~~GTZP~~ 133.3 mi
right step

1/655

AMRE	1
MEBO	11
NOOR	Ad ♂ 1
Parague	1

21 707

SOFL	1
BAAN	1
MAWA	♂ 1
RTHU	1
AMRE	♀ 1
YBCL	2
DROR	1
BTGR	1

Cloudy over
completely

3/ 719

AMRE	Ad ♂ 1
MAWA	♀ ♂ 1
NOOR	1
INBU	1
RTHU	11
SOFL	1
YBCL	11
COYE	1
BTGR	1

11/2/93

YTOR 11
TRKI 1

4/733

AMRE ad⁵ 1

GRCA 11

YDCH 1

RTHU 1

MAWA 1

SIBWW 1

BTGR 1

BDGB 1

YEW A 3 1

5/749

RTHU 1

LEFL 1

YTER 1

GRCA 1

NOOR 1

Scans

6/805

KEWA 1
RTHU 1
LEFL 1
MAWA 1

7/837

RTHU 2+1
LEFL 1
KEWA 1
WTDO 1
WCMA 1

3-4/m 40% Arroyo

60% Acaland

5, 5½, 6½

Acaland 1-2 m

Acaland 1-2 m

4100 ½, 2, 2½, 3, 4½, 5½

9200 ½, 1, 3, 4, 6

6 3-4m 11/2/93
60% 40% acahual

3020 $\frac{1}{2}, 2, 6, 7, 8\frac{1}{2}, 9$

Other side same
" "

Acahual 1-2 m
" "

2100 $\frac{1}{2}, 1, 1\frac{1}{2}, 2, 6, 8$

5000 $\frac{1}{2}, 1, 1\frac{1}{2}, 3, 4, 5$

5/ Rio ? 60% Acahual

40% Arroyo

1400 $1, 2, 2\frac{1}{2}, 3\frac{1}{2}$

Acahual 2-3 m

Rio at some 5-10 trees

8-10m 3-20m tall

4/ Rio ?

Acahual 1-2 m

arroyo arroyo 6-8m (few)

3/ 2 m wide 40%

8000 $\frac{1}{2}, 1\frac{1}{2}, 2, 3\frac{1}{2}, 4\frac{1}{2}$
15100 $1, 2, 3\frac{1}{2}, 4, 5, 5\frac{1}{2}, 7$

Acahual 1-2 m
" "

" "

" "

2-3 m 40%

3100 $\frac{1}{2}, 1\frac{1}{2}, 3, 4, 5, 5$
4003 $\frac{1}{2}, 2\frac{1}{2}, 3, 6, 7, 8, 9$

4101 $1, 8, 12, 20$

Potrero/acahual <1 m

" "

Other side same way

" "

✓ 1-2 m with 60%

6100 $\frac{1}{2}, 2, 2\frac{1}{2}, 4$
7000 $1, 2, 3, 7$

Acahual 3-4 m

4

9

6

11/2/93

- for + 136.0
Side Road 138.7

SBWW 1

12/2/93

Clean skies, No wind, Chocoja Rio
Orchard forest

1655

GRK/

2

SBWW

1

SOFL

2

RTHU

2

Toucan

11

MATY

1

Rufous
Woodpecker

black + white streaks through head

1

1

2/716

RTHU

1

LIHL

1

MAWA

1

AMPL

1

BGGN

1

3/730

AMPL

11

MAWA

11

BRJA

11

RIKIE

11

SBWW

11

MATY

11

BGGN

11

ALEBB

1

4/745

Roadside Hawk

1

WCSE

1

BBGQ

11

MATY

11

Toucan

11

TRKING

11

MAWA

1

BGGN

1

12/193

5/ in hollow above falls

803 BGGN 1
 TRKB 1 Ladder Back ♀
 2 white-tipped
 through head
 Sun Woodpecker 1 white band
 along wing
 Mang Swallow 1
 AMRE 1
 GFWO 1
 BBGQ ♂ 2
 YEWS ♂ 1

8/ 904

NWTA 1
 GB Ani 4
 RTHu 1
 NWTR 1111
 COYE 1
 BGGN 1
 GRKF 1
 CAEG 3 GFWO 1

6/ 825 by island

Toucan 1
 NWTA 1

7/ 846

NWTA 1
 YEWA ♂ 11
 PLEBB 11
 MAWA 1
 BGGN 1
 RTHu 1
 WFPA 11

9/ 919

OROR ♂ 1 COYE 1
 GDAN 1111 RTHu 1
 LIZEL 1 WCS 1

10/ 937

COARacacc 1
 Thrush Like Martin 1
 NWTA 1
 COYE 1

3 m across 33%

20010 12, 24, 3, 34, 5, 6, 8, 9
 Acahan 2-3 m
 1. 4

12/2/a>

Acahuad 2-3 m

"

a

11011 1, 2, 4, 7, 14

8010 1½, 2, 3, 4, 5, 10, 13

17010 1½, 2, 4, 6, 10

a/ 25m wide 40%

10101 1, 3, 4, 8, 10, 25

12000 1, 5, 6, 8, 10

13000 1, 6, 7, 8, 9

Riv

Rio

Acahuad 1-2 m

Potreso

"

9

8/ 20m wide 25%

Rio

Rio

Potreso

~~20m wide~~ Acahuad 1-2 m

"

9

2400 2, 3, 4, 6, 7

5700 4, 7, 8

0030 1½, 3, 10, 14, 17

0002 ½, 2, 2½, 3, 4, 8, 10, 14,
17, 18, 22.

7/ River 25

potreso except right at
river shore 3 dm tall

6/ River ~~25~~ 5m island 15m otherwise

Acahuad 1-2 m except
for a single tree 18m tall

5/ River 20m wide

Acahuad 2-3 m tall

4/ River 25m wide 40%

8000 ½, 2, 2½, 3, 4, 6

10100 1, 2, 6, 7, 10

14000 ½, 1, 2, 2½, 3, 4, 7

Acahuad 1-2 m

"

10001 ½, 1, 1½, 3, 5, 7, 9, 10, 11

5200 1, 2½, 3, 4, 5, 6, 8

Rio
Río

20m arm 10%

3/ 10,040 1/2, 8, 8½, 11
2,021 6, 8, 10, 12, 18
0013 ½, 8, 8½, 9, 11, 15
9100 10, 11, 12, 13
5010 1, 10, 11,
Rio
P.
7000 ½, 1, 8, 9, 10
6000 ½, 2, 2½, 3, 8, 9, 10

✓ 20m wide 70%

11,100
Rio
Rio
Potrero
Potrero

20,000, 1 ½, 1½, 2, 2½, 3,
4, 6
10,000 1, 7, 18
35,000 ½, 1, 1½, 2, 3, 4, 6, 20

2/ 25' wide 60%

Potrero

"

12,000, ½, 2½, 3, 4, 5
18,000 2, 2½, 5, 8
10, 1, 10 2, 4, 5, 7, 8, 10

Rio

"

5100 1, 6, 7, 8
12,000 ½, 3, 3½, 4

~~11,000~~

13/2/93

100% overcast, N. wind
Chorokha trib to start

✓ 639 NAWA 1
YTER 1
RTHA 1
WCSL 1
NDWA 1
WTD 1
BGGN 1
LCP 1

13/2/92

Q/654 Corner

L2EFL 1
WCPA 1
SOFL 1
N8WA 1
MAWA " "
AMRE ♀ " "
BBGQ 1
YBCH 1
GBSP " "
WTDO " "
deeper wit 1
BGGN 1
L7H4 1

3/7/10 BGGN 1
MAWA " "
AMRE 1
WCPA 1
LEFL 1
GBSP 1
MEBD " "

Red-shank

4/ 723

MEBD " "
AMRE Ad♂ 1
GHDO 1
WTDO 1
BRSA HHH 1
LEFL 1
BAAN ♀ 1
YBCH 1
WSE 1
MAWA ♂ 1
GBSP 1

SBWW 1
KEWA 1

5/ 740

MEBD 1
GTGR 1
WTDO 1
AMRE ♀ 1
RTHU 1
MAWA ♂ 1

13/2/03

6/7 759

SUTA 1
NEBB 11
LEFL 1
deeper wit 1
GFWO 11
RHGD 1
GBSP 1
WID 1
HOWA 1
YTEU 1
MAWA ♂ 1
AMRE ♀ 11
RTHA 1
YBCH 1
GREL 1
WBVI 1

YBCH 1

8/833

YEWA 7
YBCIF 1
deeper wit 1 LEFL
WCSE 1
RTHA 1
GHDO 1
BCFL 2
PBGD 2

9/857

~~MOOR~~ + ~~SOVI~~ 1
GRHA 1
AMRE ♀ 1
YEWA ♂ 1

7/818

BAWA 1
WCSE 11
AMREO 11
MAWA 1 1
RTHA 1 1
YBWA ♂ 1 1
LEFL 1 1

K2 m
Pasture

20%

3210

6, 7, 8, 14

2010

Y₂, 2Y₂, 5, 5Y₂, 6, 8, 9

0230

Y₂, 4, 8, 12

13/2/93

2101

2, 6

0400

2, 3, 4

8/ 1-2m 30%

1010 1½, 3, 4, 5, 6½

15200 1, 2, 4, 4½, 5, 6, 12, 13

11200 ½, 1, 2, 4

14011 ½, 1, 3, 5½, 12.

12100 ½, 3½, 5½

Pasture

"

"

"

7/ 1m wide 30%

2001 ½, 2½, 3, 4½, 10, 12

9000 ½, 1, 1½, 2, 4, 5, 6, 6½, 7

5000 ½, 1, 1½, 2, 2½, 3, 12

8220 ½, 1, 2½, 3, 6, 8

8070 ½, 1, 2, 3, 3½, 5, 7, 9

Pasture

"

"

"

6/ 1m

40%

31001

½, 2, 3, 4, 5, 7, 8, 10, 11

13000

½, 1, 2, 2½, 4, 5, 7, 8

0610

½, 2½, 5, 6

9100

½, 2½, 4, 6, 8, 10

0201

8, 18

Pasture

"

"

:

4/ 2-3m

50%

8100 ½, 3, 8, 9

5011 2, 8, 11

10010 ½, 1, 2, 3, 4, 5, 7, 12

3110 ½, 1½, 3, 7

12001 1, 6, 9, 12, 18

M:1 pm (Corn)

Pasture

"

13/2/93

2/ 3m 40%
14000 1/2, 1 1/2, 3 1/2, 4, 5, 22.
177500 1/2, 2, 7, 10, 11
12000 3, 4, 5, 5 1/2, 15
25010 1, 2, 5, 10, 17
19000 1, 2, 5, 7, 9
Pasture

2/ 2-3m wide 40%
7110 1/2, 1, 2 1/2, 3 1/2, 4, 10, 12
8110 1, 2, 6, 8
10011 1/2, 1, 2, 4
7120 1, 2, 2 1/2, 6, 7, 9
25100 1, 3, 3 1/2, 4, 5, 8
Pasture

Melpa (cont.)

2/ 2-3m 50%
8021 1, 2, 3, 2 1/2, 5, 6, 8, 12
10000 1/2, 1, 2, 6, 7
6210 1/2, 3, 6, 8, 12
24000 1/2, 2, 2 1/2, 4
12000 1/2, 1, 2 1/2, 3 1/2.
Pasture

5/ 27/93 / From Elles Ragoon
Road

14/2/93

EJ San Martin (San Rafael)

100% clouds, some in overnight
no wind Foggy, visibility 500 m

1/644 1m wide Acahuil 1-2m
narrow band of trees or arroyo
8m tall, not very dense.

~~BBGQ~~ 22/12/0/0

BBGQ 1

14/2/93 ^{1m apart}
^{not very dense}

Acahuad 2-3m tall

2/658 1m wide 0/2/1/1 day stream
Tropical large bird 2
GFWD
RBGB ♂ "

37 7/6

GFWD 2 Acahuad 2 m or
PTHn 1 mod density side, 4-5 other
1 palm no other
live trees

41 7/7

COYE 1 Acahuad 3-4m tall
MAWA 2⁵ high density over
KELWA 1, 1 shallow but 3m wide
PTHn 1

5/803

dense acahuad 4-6m
Stream 3m wide
trees bordering stream
Av Ht 8m

YEWIA
MACWAR
EDWN

6/823 GRCA 1 dense acahuad
MEBD 1 4m tall
LEFC 1 fine 2m
VBCH 1
WTDO 1
AMRE 1
~~TCBT~~ 1 1

7/847 YO FC 1 dense
tall acahuad
AMRE ♀ 1 6-8m
MAWA 1 2m wide
GRCA 1 over
WTDO 1
LEFC 1

8/908 RTAT 2

~~BAAN~~
GRCA 1 8m tall
BHTR 1 dense
MAWA ♂ 1
YEWIA 1 2m wide
AMRE 1
~~TCBT~~ 1 wedge billed

14/2/93

9/929

CBHA	11
SBWW	1
Aracari	1111
GGGN	1
AMRE	1
SHTA	1
RTAT	11
BHTR	1
WTDO	1
MPWA	1

Screbe

4-6 1 side

crees up to

12m tall

Other

11/1004

WICWA

RTAU

WTDO

VBCT

LIHE

BDFL

AMRE

Acalind

3-10m

stream 2m

10/944

Acalind

LIHE	1
MEBB	1
DHAN ♀	1
DCFL	1
BRAT	1
RTAU	1
AMRE Jun ♂	1

3-4 m tall

2m wide

11

91.7 No CP de Aya.

15/2/93

Clear Skies, No wind
Nuevo Leon

1/644

Met BB

11

SBWW

1

YEW A

1

RTH A

1

BB GQ

1

BG GN

1

GB SP

1

NW A

11

WCSE

11

60%

1 m average

1-2 m acclad

6/4/0/1

in part

10-12 m

(1-18 m)

Dot reso

3/719

50% savant
light colors

MAWA ♂ 1

BT ST

11

20% in

RL H

1/1

dense scrub

KEWA

1

4-6 m tall

RTH A

1

50% low density

SG TA

11

trees 6-8 m tall

WILWA

1

LEPL

1

10/4/1/1

WCSE

1

WF PA

1/11

1 m wide

YOF L

1

SUTA

1

1 m wide

2/701

60%

WCSE

1 3 m wide

SUTA ♀

1

NW A *

1 dense acclad

SBWW

1 4-6 m tall

WILWA ♂

1

RH CR

11 11/05/6

GR GA

11

WF DO

1

RTH A

1

4/726

60%

SDWW

1

dense scrub

WT DO

1

4-5 m tall

ATPL

1

2 trees 10 m tall

MAWA

11

bordered by 1 m

RTH A

1

tall acclad

GR GA

1

potatoe

SG TA

1

LEPL

1

YEW A ♂ 1

15/2/93

5/798 MEBB 1 Sunwet
 Toucan 1 dense scrub
 SBWW 1 5-6m
 YWJA 1 tall
 YTEN 1 40%
 COYE ♀ 1 bordered by
 BGTA 1 1-2 m acacia
 TRKB 1
 MAWA 1 tall dense
 AMRE 1 tree 15m
 BGGN 1
 WCSE 1
 RTEN 1
 GRCA 1
 LEPL 1

RTEN 1
 WCSE ♀ 1
 GRCA 1

~~RTEN~~
 7/836 MAZY 1
 MAWA 3 1
 BBFL 1
 SBWW 2
~~AMRE~~ 1
 YWJA ♂ 1
 YTEN 1
 WCSE 1

6/804

TRKI 1 3M wide
 LEPL 1 scrub
 COYE ♂ 1 dense 40%
 SOFL 1 3-4m
 GRCA 1 bordered by
 GCVE 1 1-2 m Acacia
 YOFL 1 No trees
 SBWW 2
 BBFL 1

8/9/2

WFPA 1 80%
 dense
 YTEN 1 Acacia
 BGTA 1 5-6m
 AMRE ♀ 1 in dd
 TRKB 1 banana
 BGGN 1 1 dead tree 3m
 MAWA 1 1m wide

16/2/93

Rio Charaley
high cloud, no sun

V648

AMRE	119(1)	50% dense
MANA	1	6-8m
GRCA	1	27 trees 10-12m
TRKB	1	25% 1-2 dense 25% pasture

3m across

6-8m

10-12m

1-2 dense

pasture

21/7/93

WCSC	1	4m across
AMRE	1	50% dense
MANA	1	8-10m
Yell WAR	1	50% pasture
AMRE	1	closed canopy
YBCH	1	16+ trees 12-15m
RT4H	1	all 000/16
LEFL	1	120m tall

4m across

50% dense

8-10m

50% pasture

closed canopy

16+ trees 12-15m

all 000/16

120m tall

31/7/93

COYE	1	4m wide
BGTA	111	low density along
WCSC	1	stream 6-8m
AMRE	1	bordered by pasture
TRKB	1	
YOPZ	1	

4m wide

low density along

stream 6-8m

bordered by pasture

4/7/93

BDGQ	1	3m wide
LEFL	1	6-8m
LIHC	1	low density
WCSC	1111	50%
RT4H	1	50% pasture
WCUS	1	
BGTA	1	
YOPZ	1	
SUTA	1	
GAZG	5	
SOFL	1	
NOOR	1	
OROR	1	

5/7/94 AMRE	♀	1	3m wide
MANA	♂	1	50% scrub
BDGQ	1	6-8m	
SOFL	11	2 trees per	
BDFL	11	bordered by	
YTVI	1	pasture	
RT4H	1		
NOOR	1		
COYE	11		
TRKB	1		
SBFL	1		

16/2/93

LEEL
YELWA 8

20/2/93

La Esperanza 71.2 mi.
Map D44

72.3

Map
D45

Juragua??

-GT 27

Mostly tall 10-15m second
growth all the way along from
La Esperanza except for patches
at this point road bearing
144°. Forested ridges toward
on bearing 222.

Patch extending 200m along
road, depth uncertain, 4-6m

tall moderate density

Power line crosses road 600m
further South. On the side
Chile Milpa

Roll #5 Farms 4-6
other 7

Note GT 27.1
Map D45

72.5-6 beginning of opening
Milpas with corn and chile
Some / mostly over grown for
1-2 years moderate density vegetation
1-2 m tall with some scattered
tall trees in small clumps.

72.8 Clean potato crop

72.9 ~~dead trees~~ w of road
likely that just after Note 27.1

73.2 Merezabe Rd.

71.2 Back again

Above positioning less certain
May need to try and place things
in reference to x road instead
of bearing.

GT 27.2 No reference

82.1 - 82.5 \angle 50° S road
3-4m tall dense scrub all
along road at least 100m deep
possibly more, rising up to hills beyond
some with taller forest others not.

202 (92)

82.9 Enter El Tumbo

83.5 Cross Arroyo of El Tumbo
GT 28 Aprox location on map D 45/January

83.8 Road bearing 148°
Toward break between ① open
pasture (south) extending 200 m
and 200 m south, ② and
③ second growth 2-3 m tall dense

To East all along (300 m north
and 200 m south) dense second
growth 3-4 m tall [depth is
not known] Exact position not
identified

Roll #5 From 8-9

GT 29 Aprox location on map D 45/January
Other 12

85.6 Road leading off to East
2.5 Km to Agua Dulce Tehuacán
Junction.

East side (S of junction) 50 m x
150 m x 100 m triangle of milpa
chile bordered along road by
2-3 m shrubs (1 m wide) base of

trough (away from roads) is hill
with 10-12 m tall trees and
dense understory.

West side (from junction south)
300 m x 50 m wide 2-3 m tall
second growth mod density. w/ R
power line crossing through parallel
to road

50x50 chile field then 150 x 50 acanal

Roll #5 From 11-13

86.6 Cross Tumbo river

Aprox location on map D 45/January
GT 30 River South → North

~~12~~

road on w side bordered by
8-10 m tall trees
NW pasture largely clean w/ R
a few scattered trees, 200 m x 25
SW 1-2 m tall acanal

100 m x 200 m
NE cattle in pasture low density
1-2 m acanal

Roll #5 From 14-16

20/2/93

86.8 Fr 17
Picture of typical pasture

Note

87.8-88.5 GT 30.1 ^{map D45} Imagay
apox.

large valley with mixture
of clean pasture and 3-4m
acahual

with Forested Aills to
East

88.7 Lacandon
89.3 EXIT

89.9 Cross Tumbo again

GT 31 ^{map D55/} Imagay both govt

91.1 Naha Lake Beauf 250°

To East (>30 m to base of forested
hill, 3-4 m acahual dense extends
100 m either direction in a circle

To West 100 m to north taller
scrub starts 8-10 m, between road
and lake, some houses, mostly
4-6 m acahual

Road curves to West going
South, then runs along lake I
at that point $\frac{1}{2}$ ha clumped
trees 15-20 m tall

Roll #5 Fr. 18-21

92.0 Entry into Naha
opposite N end of runway

21

21/2/93

- 93.3 Start N. end of

runway Naha

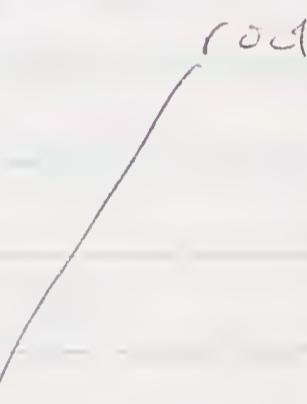
- 96.4 PLATE compound
opposite N end L. Dotal

GT32 97.5 Map D55/Imagery

Road bearing 226°

End of lake 124°

high peak due south. lake



SE sector pasture low density
shrubs <1 m tall scattered shrubs and
dead trees. Extends 300 m along road
(at last, can't see around curve) 100m
deep (straight East) but getting broader
going further south.

West side of road, Forest to north in
hills opposite lake, Then 1/2 ha patch
(100m long 50 dep) 2-3 m overground
milpa. Then 6-8 m tall patch 50m dep
50 m long with scattered dead trees
up to 20m tall

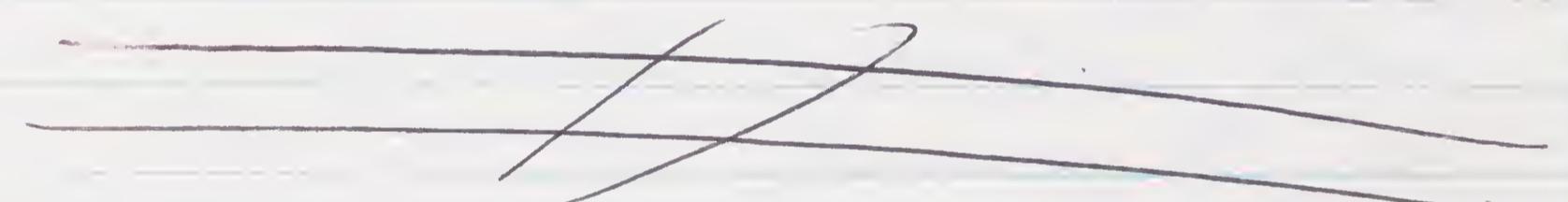
Roll #5- 23.25

GT33

Off-S

Fr#26 picture taken at
Infiernillo looking north along road
just below open patch on hillside
which is an overgrown milpa
(marked on Imagery)

Map D55/Imagery.



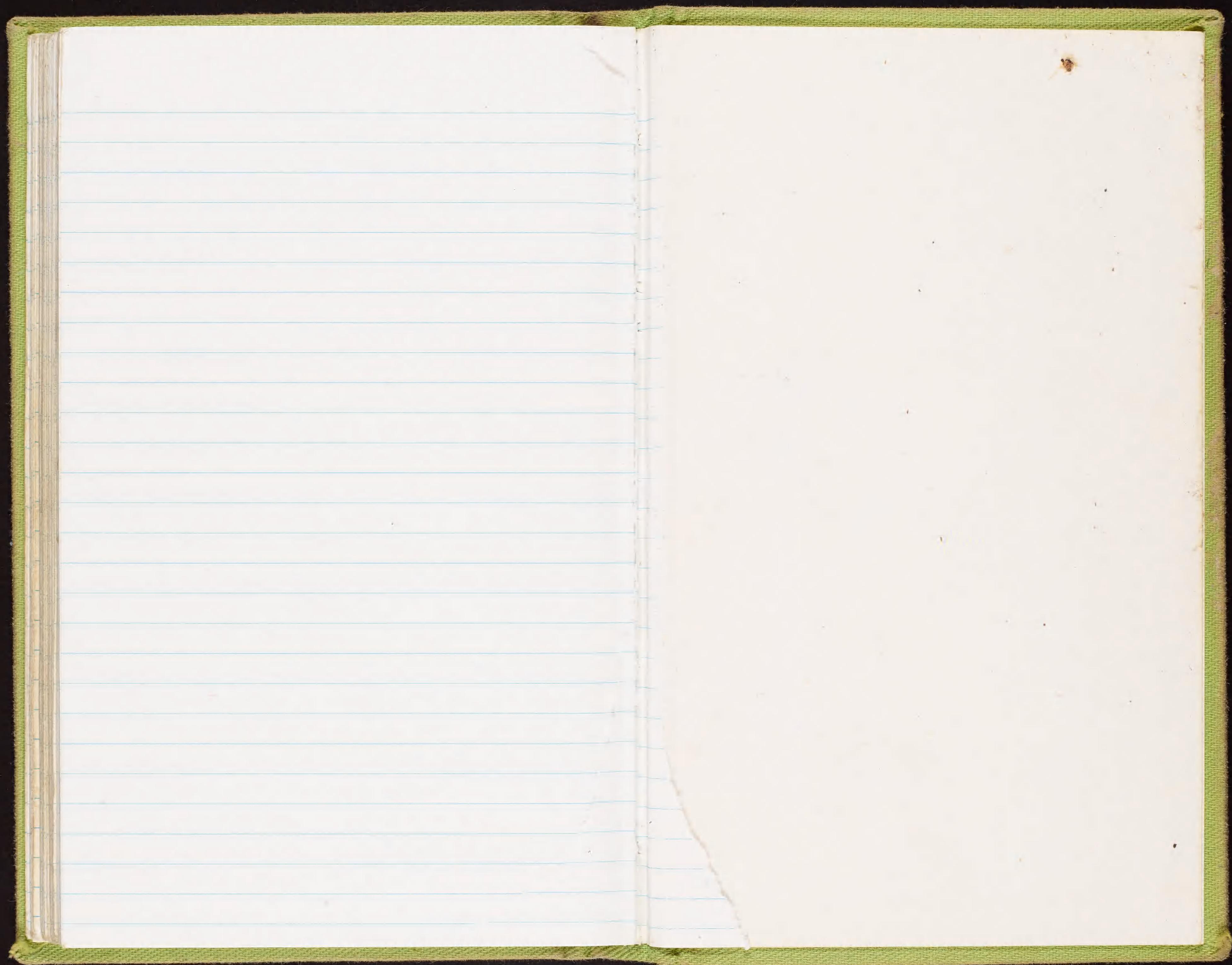
23/2/93

90% leave x road at

91.5' Const. site

Roll 5 # 32-36

dominated by pasture
with 1m grass, scattered
small trees at very low
density, (4-6m tall) interspersed
with patches of tall second
growth generally 18-20m tall
but with trees up to 25m



CBC Radio.

Air Farce.

P.O. Box 500

T. Ont. M5W 1E6

Frequent Flyer Program

4
2.7
1.6
16.2
27.0
43.2

